



# WTP Coronavirus Activities: Results from 2020 Supplemental Appropriations and Other Funding

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**July 2021**

## Overview

The purpose of this document is to summarize Coronavirus/COVID-19 training and educational outreach performed by WTP-funded organizations during the 2020 program year data (August 1, 2019 through July 31, 2020). This document represents a compilation of training activities that fall into the three categories listed below.

- **COVID-19 Training Under Supplemental Funding:** Coronavirus training in the 2020 program year by organizations funded under [NIH-NOT-ES-20-017](#), hereafter referred to as the Coronavirus/COVID-19 Supplement.
- **COVID-19 Training Under Regular WTP Funding (Without Supplement):** Coronavirus training in the 2020 program year by organizations without supplemental funding. These organizations used regular WTP program funds to support Coronavirus/COVID-19 training activities.
- **All COVID-19 Training:** Summary and total of all Coronavirus/COVID-19 training in the 2020 program year by organizations under any funding source.

NIEHS WTP funding for organizations in the 2020 program year fell under three grant mechanisms. Each grant mechanism funds specific [training program areas](#):

- **U45 mechanism:** Hazardous Materials Worker Health and Safety Training
  - [Hazardous Waste Worker Training Program](#) (HWWTP)
  - [HAZMAT Disaster Preparedness Training Program](#) (HDPTP)
  - [Environmental Career Worker Training Program](#) (ECWTP)
- **UH4 mechanism:** NIEHS/U.S. DOE Nuclear Worker Training Program
  - [NIEHS/U.S. Department of Energy \(DOE\) Nuclear Worker Training Program](#)
- **R43/44 mechanism:** Small Business Innovation Research (SBIR) Program
  - [SBIR E-Learning for HAZMAT Program](#)

Visit the NIEHS WTP [website](#) and the NIEHS [National Clearinghouse for Worker Safety and Health Training](#) for more information about the program's [COVID-19 training materials and resources](#).

## Summary of Awards and Activities with Coronavirus/COVID-19 Supplemental Funding

A total of 14 supplemental awards were made for training and e-learning activities under the Coronavirus/COVID-19 Supplement (NIH-NOT-ES-20-017) for a total of \$1,847,742 (Table 1). A total of eight supplemental awards were made for training activities and six for e-learning activities (see descriptions below).

### Training Activities

Seven supplemental awards were made to organizations under the Hazardous Materials Worker Health and Safety Training U45 mechanism. One award was made for an organization under the NIEHS/U.S. DOE Nuclear Worker Training Program UH4 mechanism. These eight awards were released in June 2020 and supported activities for WTP-funded organizations through July or August 2020 (although WTP-funded organizations were able to continue using remaining funds after that date through automatic carryover).

### E-Learning Activities

Six supplemental awards were made under the Small Business Innovation Research (SBIR) R43/R44 mechanism. SBIR awards were also released in June 2020 and extend through spring/summer 2021.

### Organizations Funded

**Table 1. Organizations funded under NIH-NOT-ES-20-017 Coronavirus/COVID-19 supplement**

WTP-Funded Organization	Grant Number	Principal Investigator(s)
United Steelworkers	3 U45 ES006175-30S1	Ashlee Fitch
Nova Southeastern University	3 U45 ES019350-10S1	Stephen Grant
Alabama Fire College	3 U45 ES006155-29S1	Kenneth Oldfield
Texas-Utah Consortium for Hazardous Waste Worker Training	3 U45 ES019360-10S1	Janelle Rios and Robert Emery
New Jersey/New York Hazardous Materials Worker Training Center	3 U45 ES006179-28S1	Mitchel Rosen
International Union, United Auto Workers	3 U45 ES006180-28S1	Darius Sivin and Andy Comai
The New England Consortium-Civil Service Employees Association	3 U45 ES006172-28S1	David Turcotte
International Association of Fire Fighters	3 UH4 ES009759-28S2	Elizabeth Del Re
Cell Podium, LLC	3 R44 ES028142-03S1	Cesar Bandera
Radiant Creative Group, LLC	3 R43 ES030580-01S1	Jeffery McLaughlin and William Perkison
Charles River Analytics, Inc.	3 R43 ES031818-01S1	Deborah Voge
InXsol, LLC	3 R44 ES028145-03S1	Henry Ryng
Gryphon Scientific, LLC	3 R43 ES030582-01S1	Margaret Rush
Gryphon Scientific, LLC	3 R44 ES025448-03S1	Gautham Venugopalan

## Training Delivery: Courses

Under the [NOT-ES-20-017](#) to support COVID-19 response, 279 courses were delivered to 8,263 individuals with 12,857 contact hours of training (**Table 2**). The courses focused on infectious disease awareness and community-level infectious disease awareness (6,946 workers), with other courses including operations-level skill building classes, train-the-trainers (to build instructor skills), and infection control risk assessment (for construction inside hospitals) (**Figure 1**).

**Table 2. Courses delivered by WTP-funded organizations, with the number of courses, number of workers trained, and total training hours under the NIH-NOT-ES-20-017 Coronavirus/COVID-19 supplement (March – July 2020)**

Course Name	Number of Courses	Number of Workers	Total Contact Hours
<b>Community-Level Infectious Disease Awareness</b>	32	2,761	4,773
<b>Domestic Preparedness Awareness</b>	8	75	300
<b>Emergency Response Awareness</b>	7	208	328
<b>Hazard Communication</b>	1	11	22
<b>Infection Control Risk Assessment</b>	22	31	42
<b>Infectious Disease Awareness</b>	176	4,185	6,228
<b>Infectious Disease Awareness Train-the-Trainer</b>	7	86	172
<b>Infectious Disease Operations</b>	8	820	820
<b>Resiliency</b>	18	86	172
<b>Grand Total</b>	<b>279</b>	<b>8,263</b>	<b>12,857</b>

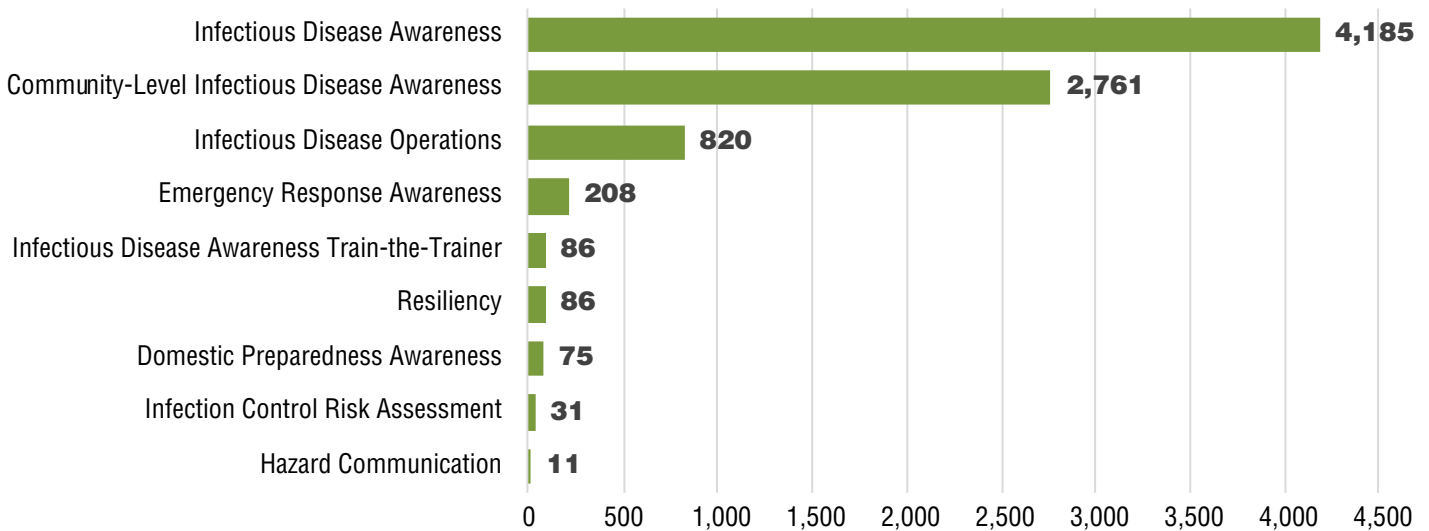


Figure 1. Total workers trained (by course name) under the [NIH-NOT-ES-20-017](#) Coronavirus/COVID-19 supplement (March – July 2020)

## Location of Training Courses

Location information was available for 89% of the courses delivered under the [NOT-ES-20-017](#) Coronavirus/COVID-19 supplement, with some virtual courses not tied to a specific state. Based on data from WTP-funded organizations that associated a location with a training course, training was delivered in over 14 states (**Table 3**).

**Table 3: Number of courses delivered (by state) under the NIH-NOT-ES-20-017 Coronavirus/COVID-19 supplement (March – July 2020)**

States	Number of Courses
AL	8
CA	2
CT	5
FL	9
IN	1
MA	20
MI	18
NJ	14
NM	2
NY	148
OH	1
PA	10
TX	6
UT	4
Not Available (N/A)	31
<b>Grand Total</b>	<b>279</b>

## Activities Funded Under the NOT-ES-20-017 Coronavirus/COVID-19 Supplement

### Training and Educational Outreach Activities (U45 and UH4 Grants)

#### United Steelworkers Tony Mazzocchi Center (USW TMC)

**Primary Worker Sectors Reached:** Health care workers, non-health care workers, non-medical workers in health care facilities, day laborers

**States:** California, Florida, New Jersey, New Mexico, Pennsylvania

**Training:** 290 workers trained with 1,202 contact hours

**Summary:** USW TMC mainly used the [NOT-ES-20-017](#) Coronavirus/COVID-19 supplement to fund activities for two affiliated worker center organizations: New Labor and the National Day Laborer Organizing Network (NDLON). New Labor activities included the delivery of COVID-19 webinars and other online training as well as development of English and Spanish COVID-19 fact sheets (**Figure 2**) and a series of trainer guides to assist online discussion with questions and breakout rooms. NDLON activities included the creation of six COVID-19 training modules and adapted NIEHS tools. They also added specific COVID-19 educational materials on their website, and conducted train-the-trainer sessions, online workshops, in-person outreach, and online training. NDLON conducted educational outreach by phone, text, and social media, to raise awareness and eliminate myths surrounding COVID-19 response. In-person outreach included workshops where NDLON member organizations visited day laborers across the country to discuss COVID-19. NDLON provided information and referrals to clinics and hospitals for COVID-19 testing and care in communities.

USW TMC conducted and produced the following:

- A webinar for health care workers on the basics of COVID-19 and appropriate protective measures.
- An English and Spanish webinar for non-health care workers on the basics of COVID-19 and appropriate protective measures.
- A webinar on “return to work” issues and how to evaluate worksite plans for the prevention of spreading the virus.
- Facebook live presentations on various topics related to the virus.
- Fact sheets on disinfectants and COVID-19 protections for non-medical workers in health care facilities.
- Brief videos on masks vs. respirators and donning and doffing gloves and N-95s.



**Figure 2.** Fact sheet and resource developed by NDLON to share information about COVID-19 with Spanish-speaking communities.

## Nova Southeastern University (NOVA)

**Primary Worker Sectors Reached:** Maritime workers, transportation workers, import and export workers, dock workers, utilities workers, elderly care workers, childcare facilities, and juvenile justice workers

**States:** Florida

**Training:** 75 workers trained with 300 contact hours

**Summary:** NOVA conducted several COVID-19 awareness trainings in English and Spanish. NOVA’s COVID-19 awareness course covered basics of the SARS-CoV-2 virus, assessing the potential for exposure in the workplace, and how to protect the worker from the exposure. They also collaborated with subcontractor MetaMedia to create video scenarios for the awareness course. The first scenario was a scene on how to recognize the symptoms of COVID-19 on a ship. The second scenario was on mental health and quarantining or isolation during COVID-19.

## Alabama Fire College (AFC)

**Primary Worker Sectors Reached:** Emergency medical services (EMS) and first responders, hospital workers, public health workers, behavioral health, dentistry, volunteers

**States:** Alabama

**Training:** 1,292 workers trained with 1,266 contact hours

**Summary:** AFC worked with The University of Alabama Birmingham (UAB) to develop two different simulation platforms on e-simulation (e-sim) and virtual reality to support timely information delivery through webinars and synchronous training. The e-sim short module focused on the proper procedure for donning and doffing personal protective equipment (PPE) followed by a scenario for medical professionals to don and doff PPE in a virtual environment (**Figure 3**). The module tests knowledge and confidence and provides necessary recommendations for improvement to the learner.



**Figure 3.** Scene from PPE module for aerosol generating procedures.

The second platform utilizes virtual reality (VR) technology to immerse the learner in the process of donning and doffing. The module automatically guides the learner, introducing, training, and testing them in the correct doffing procedures. The intended audience includes hospital employees, emergency first responders, and other workers who are at risk of exposure to the SARS-CoV-2 virus, as well as trainers who will be using the VR tool to augment training for an infectious disease response team.

AFC and UAB also conducted four webinars and co-sponsored a fifth webinar (with the Alabama Department of Public Health) on various topics of chemical exposure, use of PPE, self-care, operational challenges facing EMS and pediatric concerns. They developed a series of YouTube videos to serve as just-in-time/refresher training and demonstrated institutional protocols for donning and doffing PPE. These protocols are intended for health care workers involved in the assessment and care of individuals with suspected or confirmed COVID-19. These videos are publicly available on YouTube and were viewed a total of 1,016 times from June 1 through July 31, 2020.

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### **Texas-Utah Consortium for Hazardous Waste Worker Training (Texas-Utah Consortium)**

**Primary Worker Sectors Reached:** Essential workers

**States:** Indiana, Texas, Utah

**Training:** 3,324 workers trained with 5,356 contact hours

**Summary:** The Texas-Utah Consortium provided a series of trainings and other activities, such as infectious disease awareness- and community-level training in COVID-19 to Texas A&M University students, faculty, and the athletics department. A business safety course was developed and delivered to 1,095 learners, including content on COVID-19 Occupational Safety Health Administration (OSHA) record keeping requirements and workplace safety modifications during the pandemic. The Texas-Utah Consortium developed adaptive learning modules to help business owners, managers, and supervisors better understand COVID-19 response and safety. The Consortium developed a COVID-19 training module specific to death-care professions, which is now available in the [NIEHS National Clearinghouse for Worker Safety and Health Training](#). Consortium activities under the Coronavirus/COVID-19 supplement continued into the next program year.

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### **New Jersey/New York Hazardous Materials Worker Training Center (NJ/NY Center)**

**Primary Worker Sectors Reached:** Essential workers, such as health care, EMS and first-responders, janitors, delivery service, home health care aides, disaster volunteers

**States:** New Jersey, New York

**Training:** 854 workers trained with 1,689 contact hours

**Summary:** The NJ/NY Center primarily focused training on use of the [NIEHS Protecting Yourself from COVID-19 in the Workplace and Essential Workers training tools](#). The trainings were also directed to trainers in community-based organizations who support immigrants, and low-income workers. Online lessons on recognition, evaluation, and control of infectious disease agents were created. COVID-19 training was developed for hospital employees, first responders, disaster volunteers and others to prevent and reduce risk of exposure to SARS-CoV-2. Train-the-Trainer courses were provided for staff on infectious disease and industrial hygiene. Consortium member New York University produced two Infectious Disease Safety and Health Training for Medical First Receivers videos on the topics of “[Risk Assessment](#)” and “[Personal Protective Equipment](#).”

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### **International Union, United Auto Workers (UAW)**

**Primary Worker Sectors Reached:** Occupational health and safety professionals, essential workers, casino workers

**States:** Connecticut, Michigan, Ohio

**Training:** 413 workers trained with 791 contact hours

**Summary:** UAW provided infectious disease awareness training to essential workers. For example, UAW delivered training for casino workers on steps to prevent the spread of infection and how to work with management (once re-opened) on preventive measures, such as Plexiglas shielding gaming tables, disinfecting regularly, and checking availability of cleaning supplies. Other areas of training to address misinformation, Health Insurance Portability and Accountability Act (HIPAA) laws, and PPE were developed. Another example of COVID-19 awareness training reviewed measures that can be taken to protect workers in factory and office settings as well as outside of the workplace.



A UAW partner, the Catholic Charities of Southeast Michigan-Hispanic Outreach Services, delivered six online training courses using NIEHS curriculum in Spanish. Another partner, Casa Guadalupana, delivered COVID-19 training that included demonstrations on hand washing and how to use readily available household items such as bleach solutions for disinfecting. Casa Guadalupana made the COVID-19 training available online.

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### **The New England Consortium (TNEC)-Civil Service Employees Association (CSEA)**

**Primary Worker Sectors Reached:** Health care, construction, manufacturing, retail, entertainment, engineering, environmental remediation, and airport/airline workers

**States:** Massachusetts, New York

**Training:** 2,015 workers trained with 2,253 contact hours

**Summary:** TNEC-CSEA delivered several courses on COVID-19, which included online training related to the NIEHS Protecting Yourself from COVID-19 in the Workplace training tool and Next Steps for Worker Safety as Organizations Open During COVID-19. TNEC-CSEA began delivering virtual interactive trainings as an open enrollment course on April 16, 2020. TNEC-CSEA developed and delivered virtual training for University of Massachusetts Lowell research lab personnel and industry partners several times a week in May, June, and July 2020. COVID-19 asynchronous training in English, Spanish, and Portuguese became available in October 2020 through a partnership with InXsol e-Learning site.

Consortium partner CSEA adapted existing and created new online learning tools for protecting workers from COVID-19. Eight new curricula were created specifically for New York State public employees with state-specific guidance and protocols. The curricula focused on the following topics: COVID-19 Awareness Train-the-Trainer; cleaning and disinfecting; protecting your home from COVID-19; PPE assessments for infectious diseases; work zone safety and COVID-19; sanitation safety and COVID-19; worker's compensation and COVID-19; and a stand-alone interactive respiratory protection toolkit.

Consortium partner MassCOSH created and regularly updated an online handbook, "COVID-19 Tool Kit for Workers: Health and Safety Protections and How to Make them Happen," in both English and Spanish. MassCOSH also delivered training through allied worker centers and unions and held virtual town halls in collaboration with labor-community coalition partners.

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### **International Association of Fire Fighters (IAFF)**

**Primary Worker Sectors Reached:** Firefighters, EMS, and other first responders

**Training:** No training programs delivered (educational outreach only)

**Summary:** IAFF released several COVID-19 related awareness videos and podcasts, with many of those segments created in Spanish and French. COVID-19 resources created by IAFF included: six public service announcement (PSA) videos, three podcast episodes, and three Kitchen Table videos on YouTube and Facebook. Videos included, but are not limited to, "Awareness and Precautions," "A Message from your Fire Fighter and Paramedics," and "Donning and Doffing" (**Figure 4**). The three podcasts were titled "COVID-19," "Tackling Behavioral Health during COVID-19," and "I am a Fire Fighter... and I had COVID-19." The three Kitchen Table episodes were "COVID-19 Health and Safety Update," "Leaders on the Frontline of COVID-19," and "Communicating During COVID-19." The videos and podcasts reached a wide audience with thousands of downloads and views.

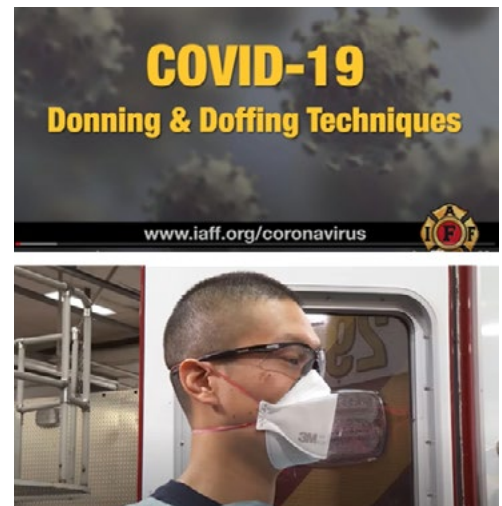


Figure 4. Screenshots of IAFF Donning and Doffing video, available on their YouTube channel.

## E-Learning Activities (SBIR R43/R44 Grants)

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### Cell Podium, LLC

**Primary Worker Sectors Reached:** Essential workers

**Summary:** Cell Podium developed and deployed a learning management system for mobile refresher training for clients to configure their own campaigns and share content with other clients. Cell Podium developed 66 worker safety modules, including content and videos on COVID-19 (**Figure 5**). Thirteen organizations are using Cell Podium's learning management system to train their constituents on COVID-19 safety and vaccination protocols.



Figure 5. Screenshot of training module from Cell Podium.

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### Radiant Creative Group, LLC

**Primary Worker Sectors Reached:** Disaster recovery workers

**Summary:** Radiant Creative Group, LLC has incorporated SARS-CoV-2 screening and education into mobile learning modules that were originally designed for providing pre- and post-flood worker deployment training. Mobile app information included safe practices to avoid the spread of COVID-19 through the use of PPE and hygiene practices. Additionally, information on how to approach the management of COVID-19 from a supervisor's perspective and how to set up an onsite screening system at work to prevent COVID-19 from spreading was included.

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### Charles River Analytics, Inc.

**Primary Worker Sectors Reached:** EMS and first responders

**Summary:** Charles River Analytics is working to provide VR-based COVID-19 compliant decontamination procedural training complementary to other training delivery methods, such as in-person or online classroom-based training. So far, their work has included the design of complementary, interactive VR-based training modules to provide individuals and small groups the opportunity to demonstrate understanding and proficiency. Charles River Analytics is iteratively: developing an Analysis, Design, Development, Implementation, and Evaluation (ADDIE) document; designing a user journey map that describes the touchpoints to include in VR-based training modules to complement training, and an accompanying VR style guide (to ensure consistency of visualizations and interactions across VR training modules); and designing and prototyping VR modules to include in a training program.

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### InXsol, LLC

**Primary Worker Sectors Reached:** Business owners

**Summary:** InXsol developed a portal to aid business owners with navigating COVID-19 risk reduction to facilitate staff returning to work. The platform offers basic training on risk identification, the hierarchy of controls, and a toolset to craft and refine control measures with stakeholder collaborators. The output is a necessary written policy and an employee training tool to educate on the who, what, when, where, and why control measures have been instituted.

Training for the employee population is self-paced, however each policy item has a pathway for the student to voice queries, concerns, or suggested improvements to policy. A marketplace to have professional consultants aid in risk reduction design was developed. A complementary "Art of Risk Management 101" course was developed to help employers understand the hierarchy of controls and how to mitigate risk in their workplaces.



## Gryphon Scientific, LLC

**Primary Worker Sectors Reached:** Volunteers, essential workers, EMS and first responders

**Summary:** Gryphon Scientific has an ongoing project focused on training citizen responders, such as Community Emergency Response Teams (CERT) and essential workers. The two training solutions include a self-paced bio-preparedness foundations course and an adaptive role-playing game focused on pathogen safety for citizen responders. The eventual effort will be deployed freely through app marketplaces for remote training. Gryphon Scientific is further developing a series of training videos targeted towards first responders at risk of Coronavirus exposure. The videos will be posted on YouTube and freely available. The topics include pathogen fundamentals and transmission routes; recommended measures to manage risk, including distancing measures; and the selection of appropriate personal protective equipment.

## Resources, Curricula, and Training Tools Developed by Organizations Funded Under the Coronavirus/COVID-19 Supplement

Table 4 includes links to various training tools that organizations developed with the [NOT-ES-20-017](#) Coronavirus/COVID-19 supplemental funding. These included webinars, PSAs, podcasts, fact sheets, videos, toolkits, and curricula.

**Table 4: Examples of tools developed by WTP-funded organizations**

Organization	Format	Title
AFC	Webinar	<a href="#">Chemical Hazards During COVID-19: Disinfectants, Cleaning Chemicals, and Tear Gas</a>
AFC	Webinar	<a href="#">Operational Challenges Facing EMS During COVID-19</a>
AFC	Webinar	<a href="#">Self-Care in Challenging Times: Care for the Caregiver in the Age of COVID-19</a>
AFC	Webinar	<a href="#">COVID-19 in Pediatrics</a>
AFC	Webinar	<a href="#">PPE: What Always Works, What Sometimes Works, What Never Works and Why</a>
AFC	Webinar	<a href="#">Just in Time Refresher Trainings</a>
AFC	Webinar	<a href="#">Just in Time Refresher Trainings 2</a>
IAFF	PSA	<a href="#">Awareness and Precautions</a>
IAFF	PSA	<a href="#">A Message From Your Fire Fighters and Paramedics</a>
IAFF	PSA	<a href="#">Signs and Symptoms</a>
IAFF	PSA	<a href="#">Donning and Doffing</a>
IAFF	PSA	<a href="#">Self-Monitoring and Preparation and Protection</a>
IAFF	PSA	<a href="#">More than Fires - Keeping Communities Safe During COVID-19</a>
IAFF	Podcast	<a href="#">COVID-19</a>
IAFF	Podcast	<a href="#">Tackling Behavioral Health During COVID-19</a>
IAFF	Podcast	<a href="#">I am a Fire Fighter...And I Had COVID-19</a>
IAFF	Episode	<a href="#">COVID-19 Health and Safety Update</a>
IAFF	Episode	<a href="#">Leaders on the Frontline of COVID-19</a>
IAFF	Episode	<a href="#">Communicating During COVID-19</a>

Organization	Format	Title
USW	Booklet	Coronavirus: La Nueva Enfermedad (Coronavirus: The New Disease)
USW TMC	Booklet	¿Qué necesito saber del Coronavirus ó COVID-19? (What Do I Need to Know about Coronavirus or COVID-19?)
USW TMC	Booklet	Juntos, pero no revueltos, ante el coronavirus (Together (or United), But Not Scrambled, In the Face of Coronavirus)
USW TMC	Booklet	Fortalezca el Sistema Inmunológico (Strengthening Our Immune System)
USW TMC	Booklet	¿A quiénes afecta más el Coronavirus? (Who Does the Coronavirus Affect Most?)
USW TMC	Booklet	Nuestra salud mental durante la pandemia (Our Mental Health During the Pandemic)
USW TMC	Fact sheet	Síntomas de coronavirus (Symptoms of Coronavirus)
USW TMC	Fact sheet	Medidas básicas para evitar el Coronavirus (Basic Measures to Prevent Coronavirus)
USW TMC	Fact sheet	¿Cuánto dura Coronavirus? (How Long Does Coronavirus Last?)
USW TMC	Fact sheet	Nuestros Derechos Laborales ante la pandemia (Workers' Rights in the Pandemic)
USW TMC	Fact sheet	Distanciamiento Social frente al coronavirus (Social Distancing During Coronavirus)
USW TMC	Fact sheets	Cuidemos nuestra Salud Mental. (Let's Care For Our Mental Health)
USW TMC	Fact sheets	Fortalecer el Sistema Inmunológico (Strengthening Our Immune System)
USW TMC	Fact sheets	Equipo de Protección Personal contra el coronavirus (Personal Protective Equipment Against Coronavirus)
USW TMC	Fact sheets	Reportándose enfermos al empleador (Calling in Sick To Your Employer)
USW TMC	Fact sheets	La educación popular y el COVID-19 (Popular Education and COVID-19)
UAW	Video	COVID-19 training video
NJ/NY Center	Video	Infectious Disease Health & Safety for First Receivers - Part 1
NJ/NY Center	Video	Infectious Disease Health & Safety for First Receivers - Part 2
TNEC-CSEA	Toolkit	MassCOSH COVID-19 Toolkit (English)
TNEC-CSEA	Toolkit	MassCOSH COVID-19 Toolkit (Spanish)

## Summary of Activities Under Regular WTP Funding (Without Supplement)

The following section describes COVID-19 training activities funded by WTP regular program funds (i.e., without the Coronavirus/COVID-19 supplement). The training was delivered under the following training program areas:

- **Hazardous Waste Worker Training Program (HWWTP)**
- **HAZMAT Disaster Preparedness Training Program (HDPTP)**
- **Environmental Career Worker Training Program (ECWTP)**
- **Ebola Biosafety and Infectious Disease Response Training Program (IDRTP)**
- **NIEHS/U.S. Department of Energy (DOE) Nuclear Worker Training Program**

### Training Delivery: Courses

Through these programs, 725 courses were delivered to 26,478 workers with 63,541 contact hours. The courses focused on infectious disease awareness and community-level infectious disease awareness (17,845 workers), with other classes including final rule awareness, and infection control risk assessment. Overall, organizations were able to deliver a wide variety of courses to address the broad scope of health safety issues under Coronavirus (**Figure 6**). Table 5 displays the number of courses, workers, and contact hours for each type of course.

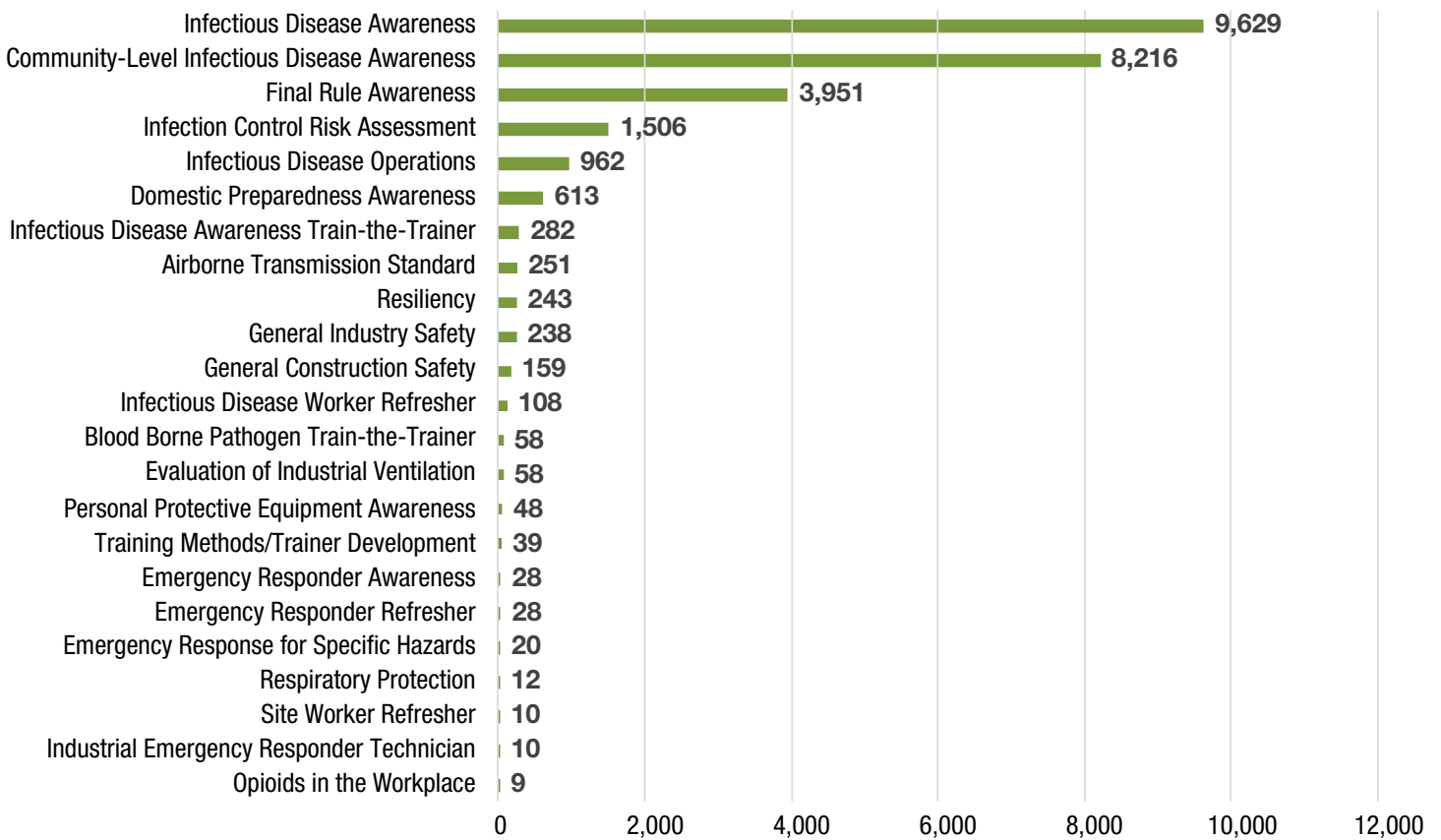


Figure 6. Total workers trained (by course name) under regular WTP funding (without the COVID-19 supplement) (January – August 2020)

**Table 5. Number of courses, number of workers trained, and total contact hours of training under regular WTP funding (without the COVID-19 supplement) (January – August 2020)**

<b>Course Name</b>	<b>Number of Courses</b>	<b>Number of Workers</b>	<b>Total Contact Hours</b>
<b>Airborne Transmission Standard</b>	12	251	753
<b>Blood Borne Pathogen Train-the-Trainer</b>	4	58	143
<b>Community-Level Infectious Disease Awareness</b>	94	8,216	16,142
<b>Domestic Preparedness Awareness</b>	37	613	9,553
<b>Emergency Response Awareness</b>	5	28	70
<b>Emergency Response for Specific Hazards</b>	2	20	50
<b>Emergency Response Refresher</b>	2	28	224
<b>Evaluation of Industrial Ventilation</b>	1	58	464
<b>Final Rule Awareness</b>	18	3,951	11,853
<b>General Construction Safety</b>	5	159	1,716
<b>General Industry Safety</b>	14	238	414
<b>Industrial Emergency Responder Technician</b>	1	10	400
<b>Infection Control Risk Assessment</b>	19	1,506	3,022
<b>Infectious Disease Awareness</b>	455	9,629	15,265
<b>Infectious Disease Awareness Train-the-Trainer</b>	25	282	591
<b>Infectious Disease Operations</b>	12	962	1,543
<b>Infectious Disease Worker Refresher</b>	3	108	216
<b>Opioids in the Workplace</b>	1	9	18
<b>Personal Protective Equipment Awareness</b>	3	48	180
<b>Resiliency</b>	6	243	723
<b>Respiratory Protection</b>	1	12	24
<b>Site Worker Refresher</b>	1	10	80
<b>Training Methods/Trainer Development</b>	4	39	97
<b>Grand Total</b>	<b>725</b>	<b>26,478</b>	<b>63,541</b>

The most courses were delivered under the Hazardous Waste Worker Training Program (**Table 6**).

**Table 6: Number of courses (by training program area) under regular WTP funding (without the COVID-19 supplement) (January – August 2020)**

<b>Program Name</b>	<b>Number of Courses</b>
<b>DOE</b>	17
<b>ECWT</b>	4
<b>HDPT</b>	398
<b>HWWT</b>	506
<b>IDRT</b>	79
<b>Grand Total</b>	<b>1,004</b>

## Location of Training Courses

Location information was available for 76% of the courses delivered under these programs, with some courses not tied to a specific state. Based on data from organizations that associated a location with a training course, training was delivered in 24 states (**Table 7**).

**Table 7: Number of courses delivered (by state) under regular WTP funding (without the COVID-19 supplement) (January – August 2020)**

States	Number of Course
AK	9
AL	35
CA	18
DC	12
FL	23
GA	2
IL	10
IN	2
KY	4
LA	12
MA	40
MD	29
MI	29
MN	3
NJ	36
NM	1
NV	1
NY	225
OH	18
PA	10
PR	1
SC	1
TX	27
WA	3
Not Available (N/A)	174
<b>Grand Total</b>	<b>725</b>



# All COVID-19 Training: Summary and Total of Activities Delivered Under Any Funding Source

## Training Delivery: Courses

The following data demonstrate that across all funding streams, 34,741 were trained in 1,004 courses focused on COVID-19, for a total of 76,398 contact hours. The courses that were delivered to the most workers were Infectious Disease Awareness, Community-Level Infectious Disease Awareness, Final Rule Awareness (a hazardous material overview course, applied to COVID-19), Infectious Disease Operations, and Infection Control Risk Assessment.

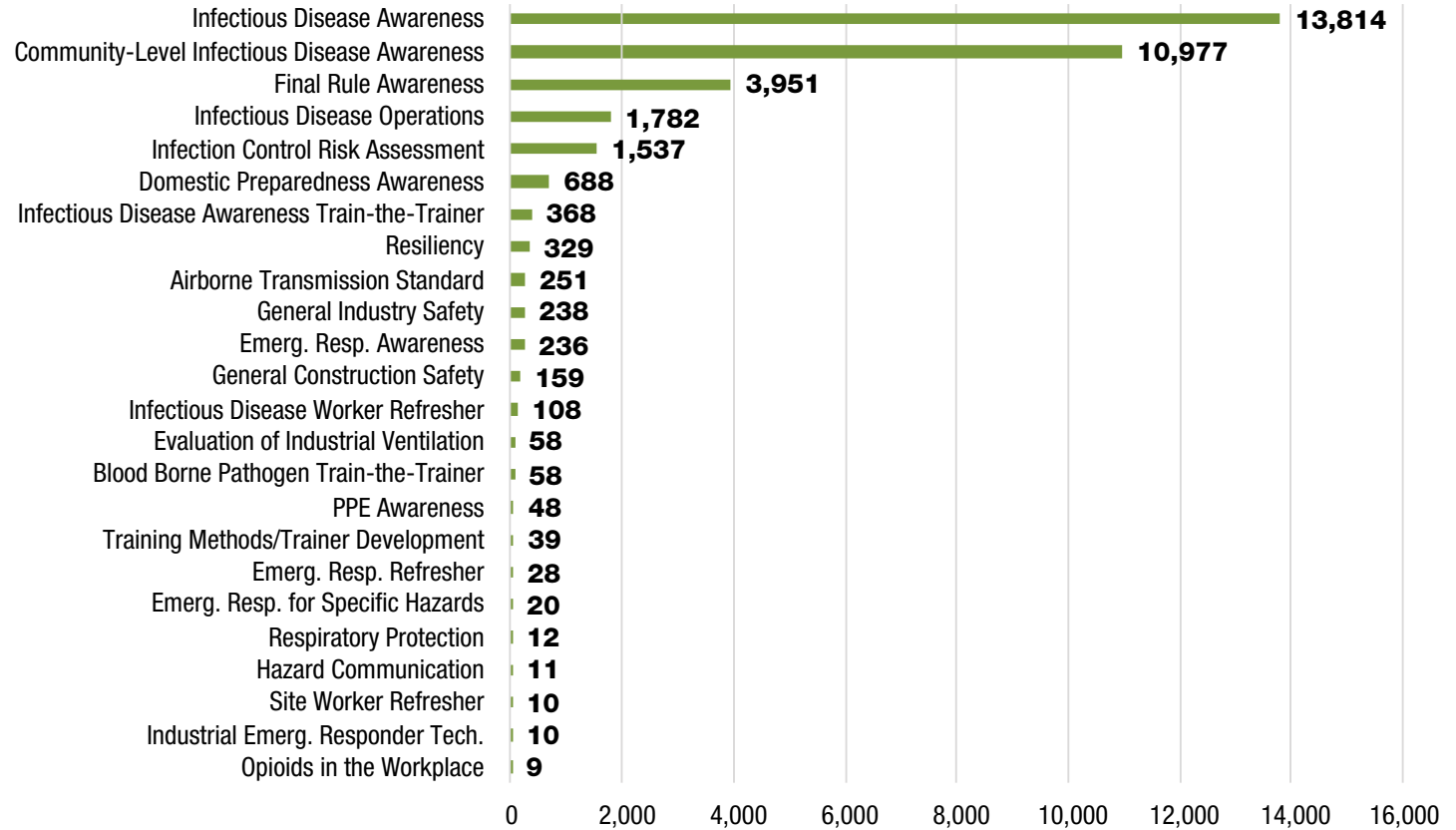


Figure 7: Total workers trained by course name under any funding source (January – August 2020)

**Table 8: Number of courses, number of workers trained, and total contact hours of training under any funding source (January – August 2020)**

<b>Course Name</b>	<b>Number of Courses</b>	<b>Number of Workers</b>	<b>Total Hours Contact Hours</b>
<b>Airborne Transmission Standard</b>	12	251	753
<b>Blood Borne Pathogen Train-the-Trainer</b>	4	58	143
<b>Community-Level Infectious Disease Awareness</b>	126	10,977	20,915
<b>Domestic Preparedness Awareness</b>	45	688	9,853
<b>Emergency Response Awareness</b>	12	236	398
<b>Emergency Response for Specific Hazards</b>	2	20	50
<b>Emergency Response Refresher</b>	2	28	224
<b>Evaluation of Industrial Ventilation</b>	1	58	464
<b>Final Rule Awareness</b>	18	3,951	11,853
<b>General Construction Safety</b>	5	159	1716
<b>General Industry Safety</b>	14	238	414
<b>Hazard Communication</b>	1	11	22
<b>Industrial Emergency Responder Technician</b>	1	10	400
<b>Infection Control Risk Assessment</b>	41	1,537	3,064
<b>Infectious Disease Awareness</b>	631	13,814	21,493
<b>Infectious Disease Awareness Train-the-Trainer</b>	32	368	763
<b>Infectious Disease Operations</b>	20	1,782	2,363
<b>Infectious Disease Worker Refresher</b>	3	108	216
<b>Opioids in the Workplace</b>	1	9	18
<b>Personal Protective Equipment Awareness</b>	3	48	180
<b>Resiliency</b>	24	329	895
<b>Respiratory Protection</b>	1	12	24
<b>Site Worker Refresher</b>	1	10	80
<b>Training Methods/Trainer Development</b>	4	39	97
<b>Grand Total</b>	<b>1,004</b>	<b>34,741</b>	<b>76,398</b>